

AMENDMENTS TO THE CLAIMS

Please amend Claims 1 and 52. The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Claim 1. (Currently Amended) A method for analysis of a non-proteinaceous small molecule comprising contacting a biological sample containing at least one non-proteinaceous small molecule with a surfactant represented by the formula:



in which

p is 0, 1 or 2;

R is alkyl;

R₁ and R₂ are each, independently, hydrogen or methyl; and

R₃ is selected from -OSO₃⁻, -R₄OSO₃⁻, -R₄OR₅SO₃⁻, and -OR₅SO₃⁻,

wherein R₄ and R₅ are each, independently, lower alkyl; wherein the analysis comprises dissociation of a non-proteinaceous small molecule from the biological sample to thereby analyze the non-proteinaceous small molecule;

and wherein the non-proteinaceous small molecule is not a peptide.

- Claim 2. (Canceled)

- Claim 3. (Original) The method of claim 2, wherein the biological sample comprises one or more cells.
- Claim 4. (Original) The method of claim 3, wherein the biological sample comprises a tissue culture.
- Claim 5. (Original) The method of claim 3, wherein the biological sample comprises a biological fluid, a biological tissue, a biological matrix, an embedded tissue sample, a cell culture supernatant, or combination thereof.
- Claim 6. (Original) The method of claim 2, wherein the analysis comprises lysis of the cell.
- Claim 7. (Original) The method of claim 2, wherein the analysis comprises clarification .
- Claim 8. (Original) The method of claim 2, wherein the analysis comprises clarification of tissue culture supernatant.
- Claim 9. (Original) The method of claim 2, wherein the analysis comprises dissociation of a non-proteinaceous small molecule from a biological matrix.

- Claim 10. (Original) The method of claim 2, wherein the biological fluid is selected from the group consisting of blood, blood plasma, urine, spinal fluid, mucosal tissue secretions, tears, interstitial fluid, synovial fluid, semen, and breast milk.
- Claim 11. (Previously Presented) The method of claim 1, wherein the analysis comprises isolation of the non-proteinaceous small molecule.
- Claim 12. (Original) The method of claim 1, wherein the analysis is selected from the group consisting of solid phase extraction, solid phase micro extraction, electrophoresis, mass spectrometry, liquid chromatography, liquid-liquid extraction, membrane extraction, soxhlet extraction, precipitation, clarification, electrochemical detection, staining, elemental analysis, Edmund degradation, nuclear magnetic resonance, infrared analysis, flow injection analysis, capillary electrochromatography, ultraviolet detection, and combinations thereof.
- Claim 13. (Previously Presented) The method of claim 1, wherein the non-proteinaceous small molecule is selected from the group consisting of a drug, a prodrug, a metabolite of a drug, and a product of a reaction associated with a natural biological process.
- Claim 14. (Original) The method of claim 1 wherein the analysis comprises high performance liquid chromatography.
- Claim 15. (Original) The method of claim 1 wherein the analysis comprises solid phase extraction.

Claim 16. (Original) The method of claim 1 wherein the analysis comprises mass spectrometric detection.

Claims 17-51 (Cancelled)

Claim 52. (Currently Amended) A method for analysis of a non-proteinaceous small molecule comprising contacting a biological sample that comprises one or more cells, said sample containing at least one non-proteinaceous small molecule, with a surfactant represented by the formula:



in which

p is 0, 1 or 2;

R is alkyl;

R₁ and R₂ are each, independently, hydrogen or methyl; and

R₃ is selected from -OSO₃⁻, -R₄OSO₃⁻, -R₄OR₅SO₃⁻, and -OR₅SO₃⁻,

wherein R₄ and R₅ are each, independently, lower alkyl; wherein the analysis comprises dissociation of a non-proteinaceous small molecule from the biological sample to thereby analyze the non-proteinaceous small molecule; and

wherein the non-proteinaceous small molecule is selected from the group consisting of a drug, a prodrug, a metabolite of a drug, and a product of a reaction associated with a natural biological process;